

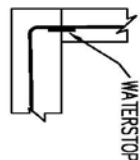
C.J. = CONSTRUCTION JOINT

LIQUID-TIGHT JOINT \_\_\_\_ YES \_\_\_\_ NO

## LIQUID-TIGHT JOINT OPTIONS

1) NON-METALLIC WATERSTOP (PVC)

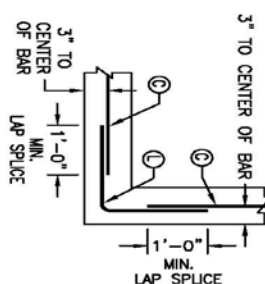
## 2) HYDROPHILIC WATERSTOP



## CONSTRUCTION JOINT OPTIONS

WALL CORNER DETAIL (PLAN VIEW)

1. IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.
2. THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.



SLAB CORNER DETAILS SEE PA-023  
RESTRAINING SLAB OPTIONS SEE PA-024

GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
- THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT.
- MAXIMUM FOOTING CONTACT PRESSURE IS 610 psf/ft.

### **DESIGN STRENGTHS:** WORKING STRESS DESIGN

- CONCRETE  $f_c = 4,000$  psi
- STEEL  $f_s = 20,000$  psi (GRADE 40)

**WALL DESIGN LOADING:** 313 STANDARD - LATERAL EARTH PRESSURE VALUES

- MANURE LOAD INSIDE = 65 psf/ft.
- SOIL BACKFILL LOAD OUTSIDE = 75 psf/ft.
- NO SURCHARGE LOAD
- SOIL BACKFILL DENSITY = 110 pcf.
- WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

**WALL RESTRAINT REQUIREMENTS:**

**• 5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 MIN.**

BAKING RISE HEIGHT (OUTSIDE LOAD)	SLAB LENGTH NO INSIDE LOAD	SLAB LENGTH FULL INSIDE LOAD
3 FEET	15 FEET	NO SLAB
2 FEET	3 FEET	NO SLAB
1 FOOT	NO SLAB	NO SLAB
0 FEET	NO SLAB	NO SLAB

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURAL, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717-2966

(ADAPTED FROM WI-531, APRIL 2005)